

0204-PA

PROCESS FOR REMOVAL OF CATALYST RESIDUES FROM POLY- α -OLEFINS

ABSTRACT OF THE DISCLOSURE

A method is disclosed for reducing levels of residual halogen and Group IIIb metals in a crude poly(α -olefin) polymerized in the presence of a catalyst comprising the halogen and

5 Group IIIb metals, wherein the method comprises:

A) washing the crude poly(α -olefin) with water;

B) separating the aqueous and organic phases;

C) then adding an adsorbent selected from the group consisting of magnesium silicates, calcium silicates, aluminum silicates, aluminum oxides, and clays to the organic phase
10 to form a slurry;

D) heating the slurry under reduced pressure at a temperature of at least about 180° C for at least about thirty minutes; and then

E) separating the adsorbent from the slurry.